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FRANK ASBURY SHERMAN.

Frank Asbury Sherman, at the time of his death, February 26, 1915, was professor emeritus on the Chandler foundation in Dartmouth College, having retired from active service in 1911, after a term of 40 years of uninterrupted teaching. He was born in 1841 at Knox, Maine, the son of Harvey Hatch and Elizabeth (Daly) Sherman, and was a direct descendant of William Sherman of the original Plymouth colony, who afterwards settled at Marshfield, Mass. Of stalwart form and sturdy character he was a typical son of the Pine Tree state. He received his early education in her common schools. At the breaking out of the Civil War he was fitting himself for college at the East Maine Conference Seminary. Imbued with a patriotic spirit, possessing the strength and ambition of opening manhood, he heard his country's call to arms and enlisted for three years in the fourth Maine volunteer infantry, in which service he was soon followed by his two brothers, Frederick and Augustus. He was severely wounded in the battle of Fredericksburg and later in the battle of the Wilderness, the latter wound causing the loss of his left arm near the shoulder. He quickly acquired the ability to use his remaining arm for all purposes and was wonderfully independent of the help of others in all the work he undertook. He was in active service through nearly the entire war and was mustered out in March, 1865. He at once resumed his work preparatory to entering college and in 1866 entered the Chandler Scientific Department of Dartmouth College, graduating therefrom in 1870 at the head of his class. He particularly enjoyed mathematics and the sciences. His high scholarship in the former and his early experience in teaching, by which means he had worked his way through college, led to his being invited to teach this subject in the Worcester Polytechnic Institute immediately after his graduation. The next year, his alma mater, needing an instructor in mathematics, tendered him a call as associate professor of mathematics and he was promoted to a full professorship the following year, namely, in 1872. This position he held till 1893, when the Chandler Scientific Department was merged into the College and he was made professor of mathematics on the Chandler foundation. The degree of Master of Science was conferred upon him in 1875. While nominally a professor of mathematics during his entire forty years of active service, for the first twenty years or more he was always ready to fill any gap; and taught various allied subjects, such as descriptive geometry, mechanics, physics, and free-hand drawing, always giving long hours in this service with the same conscientious purpose as had actuated his military career. His willingness to work and to do his part was by no means limited to collegiate lines. He will long be remembered by most of the older alumni as the secretary of their association, serving as he did in that capacity for fourteen years. He also generously served the public in various civic capacities. For many years he was a member of the local board of education and in that position designed and largely superintended the construction of their first high-school building. For several years he was a member of the village governing board. He was not a man who sought popularity or public office, but when called upon to serve, he responded quickly and did his work

promptly, carefully and with fidelity, and in most cases without remuneration. His work as a mathematician was more conspicuous in the class room than in the production of mathematical literature. He was an admirable instructor, a strict disciplinarian, though never harsh. Every student who took his courses felt that he had received full reward for his time and efforts. He took a deep personal interest in the work of each of his students and was beloved, respected, and admired by the alumni, as was shown at every succeeding Commencement, and during his last illness and up to the time of his death.

JOHN VOSE HAZEN.

DARTMOUTH COLLEGE.

NEW BOOKS RECEIVED.

A BUDGET OF PARADOXES. By Augustus De Morgan. Reprinted, with the author's additions, from the *Athenæum*. Second edition. Edited by David Eugene Smith. The Open Court Publishing Co., Chicago, 1915. Volume I, viii+402 pages. Volume II, 387 pages. \$3.50 per volume.

FUNCTIONS OF A COMPLEX VARIABLE. By E. J. Townsend. Henry Holt and Co., New York, 1915. vii+378 pages. \$4.00.

DIOPHANTINE ANALYSIS. By R. D. Carmichael. Mathematical Monographs, No. 16. John Wiley and Sons, New York, 1915. vi+118 pages. \$1.25.

ANALYTIC GEOMETRY. By H. B. Phillips. John Wiley and Sons, New York, 1915. vii+193 pages. \$1.50.

ROBERT OF CHESTER'S LATIN TRANSLATION OF THE ALGEBRA OF AL-KHOWARIZMI, WITH AN INTRODUCTION, CRITICAL NOTES AND AN ENGLISH VERSION. By Louis Charles Karpinski. The Macmillan Co., New York, 1915. 164 pages.

THEORY AND APPLICATIONS OF FINITE GROUPS. By G. A. Miller, H. F. Blichfeldt and L. E. Dickson. John Wiley and Sons, New York, 1916. xvii+390 pages. \$4.00.

HISTORICAL INTRODUCTION TO MATHEMATICAL LITERATURE. By G. A. Miller. The Macmillan Co., New York, 1916. xiii+302 pages. \$1.60.

FUNDAMENTAL CONCEPTIONS OF MODERN MATHEMATICS. Variables and quantities with a discussion of the general conception of functional relation. By Robert P. Richardson and Edward H. Landis. The Open Court Publishing Co., Chicago, 1916. xxi+216 pages. \$1.25.

CONTRIBUTIONS TO THE FOUNDING OF THE THEORY OF TRANSFINITE NUMBERS. By George Cantor. Translated and provided with an introduction and notes by Philip E. B. Jourdain. The Open Court Publishing Company, Chicago, 1915. ix+211 pages. \$1.25.

ANALYTIC MECHANICS. By John Anthony Miller and Scott Barrett Lilly. D. C. Heath and Co., Boston, 1915. xv+297 pages. \$2.00.

THE ELEMENTS OF SURVEYING AND GEODESY. By W. C. Popplewell. Longmans, Green and Co., London, 1915. xi+244 pages. \$2.25.